Changed the margins in cases where the sequence text was "wrapped" down to the next line.  Edited a format error in the Current Application Data section, specifical NTERED  Edited the Current Application Data section with the actual current number. The number inputted by the applicant was   the prior application data; or   other  Added the mandatory heading and subheadings for "Current Application Data".  Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.  Changed the spelling of a mandatory field (the headings or subheadings), specifically;  Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:  Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.  Inserted colons after headings/subheadings. Headings edited included:  Deleted extra, invalid, headings used by an applicant, specifically:  Deleted:   non-ASCII "garbage" at the beginning/end of files;   secretary initials/filename at end of file   page numbers throughout text;   other invalid text, such as    Inserted mandatory headings, specifically:  Edited identifiers where upper case is used but lower case is required, or vice versa.  Corrected an error in the Number of Sequences field, specifically:  A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.  Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length." field accordingly (error due to a Palentin bug). Sequences corrected:  Other: Corrected the "Nishlynwout of Smitho acid Numberrity.	Serlal	Number: 09 990,385 Edited by:
Edited a formal error in the Current Application Data section, specifically.  Edited the Current Application Data section with the actual current number. The number inputted by the applicant was   the prior application data; or   other    Added the mandatory heading and subheadings for "Current Application Data".  Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically;  Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:  Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.  Inserted colons after headings/subheadings. Headings edited included:  Deleted extra, invalid, headings used by an applicant, specifically:  Deleted: One ASCII 'garbage' at the beginning/lend of files; secretary initials/filename at end of file page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically:  Corrected an obvious error in the response, specifically:  Edited identifiers where upper case is used but lower case is required, or vice versa.  Corrected an error in the Number of Sequences field, specifically:  A 'Hard Page Break' code was inserted by the applicant. All occurrences had to be deleted.  Oefeted ending stop coden in amino acid sequences and adjusted the '(A)Length: field accordingly (error due to a Patentin bug). Sequences corrected:  Other: Owneded the Millings and of Smilno acid Numbershy.		Changed a file from non-ASCII to ASCII Verified by: Verified by: (STIC st
Edited the Current Application Data section with the actual current number. The number inputted by the applicant was   the prior application data; or   other    Added the mandatory heading and subheadings for "Current Application Data".  Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically;  Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:  Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.  Inserted colons after headings/subheadings. Headings edited included:  Deleted extra, invalid, headings used by an applicant, specifically:  Deleted:   non-ASCII garbage" at the beginning/end of files;   secretary initials/filename at end of file   page numbers throughout text;   other invalid text, such as    Inserted mandatory headings, specifically:  Corrected an obvious error in the response, specifically:  Edited identifiers where upper case is used but lower case is required, or vice versa.  Corrected an error in the Number of Sequences field, specifically:  A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.  Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length: field accordingly (error due to a Patentin bug). Sequences corrected:  Other:   Qorrected The Mindstryneut of Semino Scrid Number by .		
applicant was   the prior application data; or   other    Added the mandatory heading and subheadings for "Current Application Data".  Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.    Changed the spelling of a mandatory field (the headings or subheadings), specifically.  Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:    Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:    Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.    Inserted colons after headings/subheadings. Headings edited included:    Defeted extra, invalid, headings used by an applicant, specifically:    Defeted = non-ASCII garbage" at the beginning/end of files:   secretary initials/filename at end of file   page numbers throughout text;   other invalid text, such as   Inserted mandatory headings, specifically:    Corrected an obvious error in the response, specifically:    Edited identifiers where upper case is used but lower case is required, or vice versa.    Corrected an orror in the Number of Sequences field, specifically:    A "Hard Page Break" code was inserted by the applicant. All occurrences had to be defeted.    Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length: field accordingly (error due to a Patentin bug). Sequences corrected:    Other:   Ophicidal Mile Missally nevert of Semino Solid Number/ly.		Edited a format error in the Current Application Data section, specifically
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Corrected the misalignment of amino acid numberity.		Othor
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0550

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE

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RAW SEQUENCE LISTING
                                                                DATE: 12/03/2001
                      PATENT APPLICATION: US/09/990,385
                                                                TIME: 14:31:03
                      Input Set : A:\yanai sequence listing.txt
                                                                       Does Not Comply
                      Output Set: N:\CRF3\11212001\1990385.raw
                                                                      Corrected Diskette Needed
                      SEQUENCE LISTING
       4 (1) GENERAL INFORMATION:
                                                                          poror on p. 4
              (i) APPLICANT: Koji YANAI et al.
             (ii) TITLE OF INVENTION: BETA-FRUCTOFURANOSIDASE AND ITS GENE, METHOD OF
       6
       7
                                       ISOLATING BETA-FRUCTOFURANOSIDASE GENE, SYSTEM FOR
PRODUCING
       8
                                       BETA-FRUCTOFURANOSIDASE, AND BETA-FRUCTOFURANOSIDASE
VARIANT
       9
            (iii) NUMBER OF SEQUENCES: 35
     10
             (iv) CORRESPONDENCE ADDRESS:
     11
                   (A) ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
     12
                   (B) STREET: 2033 K Street, N.W., Suite 800
     13
                   (C) CITY: Washington
     14
                   (D) STATE: D.C.
     15
                   (E) COUNTRY: U.S.A.
     16
                   (F) ZIP: 20006
     17
              (V) COMPUTER READABLE FORM:
     18
                   (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
     19
                   (B) COMPUTER: IBM Compatible
     20
                   (C) OPERATING SYSTEM: MS-DOS
     21
                   (D) SOFTWARE: Wordperfect 5.1
     22
             (vi) CURRENT APPLICATION DATA:
C--> 23
                   (A) APPLICATION NUMBER: US/09/990,385
C--> 24
                   (B) FILING DATE: 23-Nov-2001
     25
            (Vii) PRIOR APPLICATION DATA:
     26
                   (A) APPLICATION NUMBER: 09/142,623
     27
                   (B) FILING DATE: September 10, 1998
     28
          (viii) ATTORNEY/AGENT INFORMATION:
     29
                   (A) NAME: Lee Cheng
     30
                   (B) REGISTRATION NUMBER: 40,949
     31
                   (C) REFERENCE/DOCKET NUMBER: 2001-1611
     32
            (ix) TELECOMMUNICATION INFORMATION:
     33
                   (A) TELEPHONE: 202-721-8200
                   (B) TELEFAX: 202-721-8250
     34
ERRORED SEQUENCES
     35 (2) INFORMATION FOR SEQ ID NO: 1:
     36
             (i) SEQUENCE CHARACTERISTICS:
     37
                  (A) LENGTH: 635 amino acid residues
     38
                  (B) TYPE: amino acid
     39
                  (C) STRANDEDNESS: Not relevant
W--> 40
                  (D) TOPOLOGY: Not relevant
     41
            (ii) MOLECULE TYPE: protein
     42
            (vi) ORIGINAL SOURCE:
     43
                  (A) ORGANISM: Microorganism: Aspergillus niger ACE-2-1
```

(ATCC 20611)

44

45 (ix) FEATURE:

RAW SEQUENCE LISTING DATE: 12/03/2001 PATENT APPLICATION: US/09/990,385 TIME: 14:31:03

Input Set : A:\yanai sequence listing.txt
Output Set: N:\CRF3\11212001\I990385.raw

46 47																
48		(C) IDENTIFICATION METHOD: E														
49	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:															
		Tyr	His	Leu	Asp	Thr	Thr	Ala	Pro	Pro	Pro	Thr	Asn	Leu	Ser	Thr
51					5					10					15	
	Leu	Pro	Asn		Thr	Leu	Phe	His		${\tt Trp}$	Arg	Pro	Arg	Ala	His	Ile
53	_	_		20		_	_	_	25					30		
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		Asn	Gly	Ser	Phe		Tle	Gln	Pro	Glv		T.vc	Δen	Aen	Dro	
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62	Ala	Val	Phe	Asp	Gly	Ala	Val	Ile	Pro		Gly	Val	Asn	Asn	_	Pro
63				100	_				105		•			110		
64	Thr	Leu	Leu	Tyr	Thr	Ser	Val	Ser	Phe	Leu	Pro	Ile	His	Trp	Ser	Ile
65			115					120					125			
	Pro		Thr	Arg	Gly	Ser	Glu	Thr	Gln	Ser	Leu	Ala	Val	Ala	Arg	Asp
67		130					135					140				
		Gly	Arg	Arg	Phe		Lys	Leu	Asp	Gln		Pro	Val	Ile	Ala	
	145	D	Dh.	<b>3</b> 3 -	**- 1	150	1	<b>1</b>		-1	155	_	_			160
71	HIS	PIO	Phe	Ата	165	Asp	vaı	Thr	Ala	170	Arg	Asp	Pro	Phe		Pne
	Δrσ	Ser	Ala	T.v.c		Agn	Va 1	Lan	LOU		Ton	λαη	Clu	Clu	175	λ 1 a
73	1119	DCI	niu	180	Leu	изь	Val	ЦСu	185	Ser	пец	nsp	GIU	190	vai	нта
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75	_		195					200				1	205			-10
76	Asn	Ala	Pro	Trp	Tyr	Val	Ala	Val	Ser	Gly	Gly	Val	His	Gly	Val	Gly
77		210					215					220				-
		Ala	Gln	Phe	Leu	Tyr	Arg	Gln	Asn	Gly	Gly	Asn	Ala	Ser	Glu	Phe
	225					230					235					240
	Gln	$\mathtt{Tyr}$	Trp	Glu		Leu	Gly	Glu	Trp		Gln	Glu	Ala	Thr		Ser
81	G	m	<b>01</b>		245	<b>a</b> 1	-1	_		250	_	_			255	
83	ser	Trp	Gly		Glu	GTÀ	Thr	Trp		GTA	Arg	Trp	GLY		Asn	Phe
	C111	Thr	Gly	260	W - 1	T 011	Dho	Lon	265	C1.,	C1	<i>c</i> 1	TT i ~	270	D	<b>a</b> 1
85	GIU	TIIT	275	ASII	vaı	Leu	Pile	280	TIIT	GIU	GIU	СТА	285	ASP	PLO	GIII
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88	Ile		Pro	Gln	Val	Ser		Ile	His	Asp	Met		Trp	Ala	Ala	Glv
89	305					310				•	315					320
90	Glu	Val	Gly	Val	Gly	Ser	Glu	Gln	Glu	Gly	Ala	Lys	Val	Glu	Phe	Ser
91					325					330					335	
	Pro	Ser	Met		Gly	Phe	Leu	Asp		Gly	Phe	Ser	Ala	Tyr	Ala	Ala
93				340					345					350		
94	Ala	Gly	Lys	Val	Leu	Pro	Ala	Ser	Ser	Ala	Val	Ser	Lys	Thr	Ser	Gly

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/990,385

DATE: 12/03/2001 TIME: 14:31:03

Input Set : A:\yanai sequence listing.txt
Output Set: N:\CRF3\11212001\I990385.raw

	95			355					360					365			
	96	Val	Glu	Val	Asp	Arg	Tyr	Val	Ser	Phe	Val	Trp	Leu	Thr	Glv	Asp	Gln
	91		3/0					375	)				380	}			
	98	Tyr	Glu	Gln	Ala	Asp	Gly	Phe	Pro	Thr	Ala	Gln	Gln	Gly	Trp	Thr	Gly
	99	202					390					395					400
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			λαη	λαν	<b>01.</b> .	405		_	1		410					415	5
	103	, vai	пор	ASII	420	теп	val	Arg	GLu	Glu	Gly	Val	Ser	Trp			Gly
			Ser	Asp			Thr	. 7.1 a	λνα	425	7	m1	_	~ 1	430		Ile
	105			435	21011	OII	. 1111	мта	440	Leu	Arg	ınr	Leu	G1y 445		Thr	lle
	106	Ala	Arg	Glu	Thr	Lvs	Ala	Ala	Len	Leu	Δla	Δen	Clv	445	1701	mh »	Ala
	107		430					455					460				
	108	Glu	Glu	Asp	Arg	Thr	Leu	Gln	Thr	Ala	Ala	Val	Val	Pro	Phe	Δla	Gln
	109	403					4/0					475					490
	110	`Ser	Pro	Ser	Ser	Lys	Phe	Phe	Val	Leu	Thr	Ala	Gln	Leu	Glu	Phe	Pro
						485					490					105	
E>	112	Ата	ser	Ala	Arg	Ser	Ser	Pro	Leu	Gln	Ser	Gly	Phe	Glu	Ile	Leu	Ala
E/		cor	C1	T 0	500		<b>—1</b>			505						السروي	
	115	Ser	GIU	515	GIU	Arg	Thr	Ala	Ile	Tyr	Tyr	Gln	Phe		Asn	Glu	Ser
		Len	Val		Aen	λκα	Cor	Cln	520	<b>G</b>				525			
	117	Leu	530	, 41	шър	пту	SET	535	TIII	ser	Ата	Ala	A1a 540	Pro	Thr	Asn	Pro
	118	Gly	Leu	Asp	Ser	Phe	Thr	Glu	Ser	Glv	T.ve	T.011	340 Ara	T OU	Dho	7	17- 1
	117	242					550					555					E C O
	120	Ile	Glu	Asn	Gly	Gln	Glu	Gln	Val	Glu	Thr	Leu	Asp	Len	Thr	Val	Val
	121					ろりろ					570					575	
	122	Val	Asp	Asn	Ala	Val	Val	Glu	Val	Tyr	Ala	Asn	Gly	Arq	Phe	Ala	Leu
	123				280					585					500		
	124	Ser	Thr	Trp	Ala	Arg	Ser	${\tt Trp}$	Tyr	Asp	Asn	Ser	Thr	Gln	Ile	Arg	Phe
	123			293					600					605			
	127	Phe	610	ASII	етх	GLU	GTA	Glu	Val	Gln	Phe	Arg	Asn	Val	Ser	Val	Ser
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							000					635					

— misaligned numbering note: pls. we spacebar instead of tabley VERIFICATION SUMMARY DATE: 12/03/2001
PATENT APPLICATION: US/09/990,385
TIME: 14:31:04

ATENT APPLICATION: US/09/990,385 TIME: 14:31:04

Input Set : A:\yanai sequence listing.txt
Output Set: N:\CRF3\11212001\I990385.raw

L:23 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:24 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:40 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=1 L:113 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1  $L\!:\!243$  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 L:269 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8 L:279 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9 L:354 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=11 L:485 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=13 L:617 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15 L:627 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16 L:637 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17 L:647 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=18 L:657 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19 L:667 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20 L:677 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21 L:687 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22 L:697 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23 L:707 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24 L:717 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25 L:727 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26 L:737 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27 L:747 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28 L:757 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29 L:767 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30 L:777 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31 L:787 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32 L:797 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33 L:807 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34 L:817 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35